13   assign to each combination of channel input and input bin of

14   said transmitter substantially orthogonalizing procedure; and

15   a substantially orthogonal procedure processor system

16   that applies, independently for each said channel input, said

17   transmitter substantially orthogonalizing procedure to said

18   spatially processed symbols assigned to each said channel input.

1   227. (NEW) Apparatus for processing a sequence of

2   symbols received via a plurality of outputs of a channel, said

3   apparatus comprising:

4   a substantially orthogonalizing procedure processor

5   system that applies a receiver substantially orthogonalizing

6   procedure to said sequence of symbols, said procedure being

7   applied independently for each of said plurality of channel

8   outputs, each output symbol of said substantially orthogonalizing

9   procedure processor system corresponding to a particular output

10   bin and a particular one of said channel outputs; and

11   a spatial processor that, for each output bin,

12   spatially processes symbols corresponding to said output bin in

13   accordance with a spatial direction assigned to said output bin

14   to develop spatially processed symbols so that a spatial

15   direction is defined for each output bin, each output bin

16   specifying one of a plurality of subchannels.--

REMARKS

          The present preliminary amendment is for the purpose of
clarifying certain aspects of the present invention. Also,
certain claims have been cancelled for the purpose of reducing
filing fees at the present time. The claims are believed to be
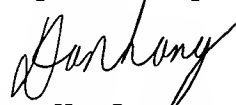in condition for allowance.

          Applicants and the undersigned recognize the complexity
of the present application. The Examiner is invited to contact

Gregory G. Raleigh et al.
Serial No.: 08/921,633
Page 24

PATENT

the undersigned by telephone at any time to discuss the application.

Respectfully submitted,

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